



#1636

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Applicants: Marvin Slepian

Serial No.: 10/072,766

Art Unit: 1636

Filed: February 8, 2002

Examiner: Not Yet Assigned

For: *ENDOMURAL THERAPY*

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including four (4) pages of Form PTO-1449 and a copy of each document cited therein.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission.

However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
2,677,700	05-04-1954	Jackson et al.	260-488
3,036,118	05-22-1962	Jackson et al.	260-484
3,535,307	10-20-1970	Moss et al.	260-209
3,829,506	08-13-1974	Schmolka et al.	260-615 B
4,517,686	05-21-1985	Ruoslahti et al.	3/1
4,578,079	03-25-1986	Ruoslahti et al.	623/11
4,589,881	05-20-1986	Pierschbacher et al.	623/11

4,938,763	07-03-1990	Dunn et al.	604/891.1
5,041,380	08-20-1991	Ruoslahti et al.	435/240.2
5,149,780	09-22-1992	Plow et al.	530/324
5,169,930	12-08-1992	Ruoslahti et al.	530/35

Publications

AUMAILLEY, et al., "Arg-Gly-Asp constrained within cyclic pentapeptides. Strong and selective inhibitors of cell adhesion to vitronectin and laminin fragment P1," *FEBS*, 291(1): 50-54 (1991).

BECK, et al., "Structure and function of laminin: anatomy of a multidomain glycoprotein," *FASEB J.*, 4(2):148-160 (1990).

GRAF, et al., "A pentapeptide from the laminin B1 chain mediates cell adhesion and binds the 67,000 laminin receptor," *Biochem.*, 26(22):6896-6900 (1987).

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KAUFMANN, "Heat shock proteins and the immune response," *Immunol. Today*, 11(4):129-137 (1990).

KLEINMAN, et al., "Basement membrane complexes with biological activity," *Biochem.*, 25(2):312-318 (1986).

KLEINMAN, et al., "Biological activities of laminin," *J. Cell Biochem.*, 27(4):317-325 (1985).

LINDQUIST, "The heat-shock response," *Ann. Rev. Biochem.*, 55:1151-1191 (1986).

LINDQUIST, et al., "The heat-shock proteins," *Annu. Rev. Genet.*, 22:631-677 (1988).

MOHRI, et al., "Novel effect of cyclicization of the Arg-Gly-Asp-containing peptide on vitronectin binding to platelets," *Amer. J. Hem.*, 37(1):14-19 (1991).

MORIMOTO, "Heat shock: the role of transient inducible responses in cell damage, transformation, and differentiation," *Cancer Cells*, 3(8):295-301 (1991).

NOVER, "HSFs and HSPs - a stressful program on transcription factors and chaperones." Stress Proteins, and the Heat Shock Response, sponsored by Cold Spring Harbor Laboratory (Cold Spring Harbor, NY USA April 29-May 2, 1991) *New Biol.* 3:855-859 (1991).

NOVER, et al., "Heat shock protein, in Heat Shock Response (CRC Press, 1991) pp. 41-127.

PELHAM, "Heat shock and the sorting of luminal ER proteins," *EMBO J.*, 8(11):3171-3176 (1989).

PELHAM, "Speculations on the functions of the major heat shock and glucose-regulated proteins," *Cell*, 46(7): 959-961 (1986).

PIERSCHBACHER, et al., "Influence of stereochemistry of the sequence Arg-Gly-Asp-Xaa on binding specificity in cell adhesion," *J. Biol. Chem.*, 262(36): 17294-17298 (1987).

SAKAMOTO, et al., "Inhibition of angiogenesis and tumor growth by a synthetic laminin peptide, CDPGYIGSR-NH₂," *Cancer Res.*, 51(3):903-906 (1991).

SCARBOROUGH, et al., "Design of potent and specific integrin antagonists. Peptide antagonists with high specificity for glycoprotein IIb-IIIa," *J. Biol. Chem.* 268(2): 1066-1073 (1993).

SCHLESINGER, "Heat shock proteins," *J. Biol. Chem.*, 265(21):12111-12114 (1990).

SCHLESINGER, Heat Shock: from bacterial to man (Cold Spring Harbor, Cold Spring Harbor, NY 1982).

TAY, et al., "Activity toward thrombin-antithrombin of heparin immobilized on two hydrogels," *Biomaterials*, 10(1): 11-15 (1989).

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Dated: June 21, 2002

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U.S.S.N.: 10/072,766

Filed: February 8, 2002

INFORMATION DISCLOSURE STATEMENT



Certificate of Mailing under 37 C.F.R. § 1.8(a)

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Date: June 21, 2002

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Brent A. Winitt

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number

10/072,766

Filing Date

February 8, 2002

First Named Inventor

Marvin Slepian

Group Art Unit

1636

Examiner Name

Attorney Docket Number

MJS 104	
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Sheet

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Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2,677,700		Jackson et al.	05-04-1954	
		3,036,118		Jackson et al.	05-22-1962	
		3,535,307		Moss et al.	10-20-1970	
		3,829,506		Schmolka et al.	08-13-1974	
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		5,149,780		Plow et al.	09-22-1992	
		5,169,930		Ruoslahti et al.	12-08-1992	

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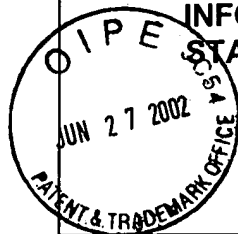
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Group Art Unit	1636
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Attorney Docket Number	MJS 104

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	4
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OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	✓	AUMAILLEY, et al., "Arg-Gly-Asp constrained within cyclic pentapeptides. Strong and selective inhibitors of cell adhesion to vitronectin and laminin fragment P1," <i>FEBS</i> , 291(1): 50-54 (1991).	
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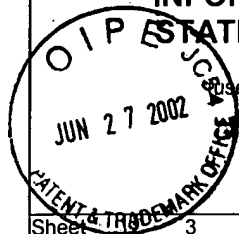
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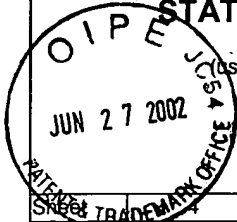
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